

IN THE SPECIFICATION:

Just before Paragraph 0001 at page 1 add headings as follows:

FIELD OF THE INVENTION

Just before Paragraph 0002 at page add headings as follows:

BACKGROUND OF THE INVENTION

Paragraph 0002 at page 1 is amended as follows:

The invention seeks to provide geographically disparate medical professionals with specialized views of patient-related data. For example, lab technicians, clinicians, and genomic researchers may wish to examine some of the same information regarding an individual, but each may have particular interests as well. To complicate matters, certain data is often large and expensive to replicate and/or move from its natural home. ~~To this end, a data network such as the Internet and associated communication platforms provide the basis for greater collaboration between doctors and laboratory scientists, a means to connect a patient or subject to a larger quantity of relevant data and potentially influence the workflow and results of Medicine, from diagnosis to treatment.~~

Just before Paragraph 0003 at page 1 add headings as follows:

SUMMARY OF THE INVENTION

Paragraph 0003 at page 1 is amended to add text deleted from paragraph 2 as follows:

To this end, a data network such as the Internet and associated communication platforms provide the basis for greater collaboration between doctors and laboratory scientists, a means to connect a patient or subject to a larger quantity of relevant data and potentially influence the workflow and results of Medicine, from diagnosis to treatment. The system preferably incorporates one or more of the following features:

Paragraph 0010 at page 2 and the heading just before it are amended as follows:

{04}Summary of the Invention

~~The Embodiments of the invention relates to include~~ a clinical research data management system and method for a plurality of users. A computer system is operable to service user requests and provide users with information responsive to the user requests. A database is coupled to the computer system. The database is operable to store user data and study data. The study data includes candidate data, specimen data, event data and at least one dataset. The dataset is defined using metadata.

Paragraph 0062 at page 6 is amended to as follows:

Database: generally refers to a collection of information stored for later retrieval. Traditional databases are organized by fields, records, and files. A field is a single piece of information; a record is ~~one a~~ complete set of fields; and a file is a collection of records. The term “database” is used herein in its broadest sense (i.e., a collection of information) and is not limited to any particular structure or implementation.

Paragraph 0066 at page 6 is amended to as follows:

Rational Rose: generally refers to a model-driven software development tool utilizing UML (defined below).

Paragraph 0074 at page 7 is amended to as follows:

In Figure 1, arrows labeled with the terms “Internet” and “Lan” are exemplary data networking methods for interconnecting the functional blocks. Based on the disclosure herein, communication between the client tier, middle tier and data tier in accordance with the invention based on typical data networking principals is well within the grasp of those skilled in the art. It is also understood that data communication between the various tiers can traverse several nodes and/or can be facilitated with one or more computer systems not shown.

Paragraph 0109 at page 11 is amended to as follows:

Application - study independent subsystems and subsystem interfaces that provide services for the system. ~~these~~ These include data access and business logic.

Paragraph 0124 at page 12 is amended to as follows:

Figure 6 represents an overview of the mechanisms and elements involved in processing ~~request-requests~~ generated from a client web browser. These request are usually in the form of performing some action on or requesting data from the system. In the diagram solid arrows represent ~~request-requests~~ made from one element to another. Boxes on an element line represent internal processing done.

Paragraph 0127 at page 12 is amended to as follows:

As discussed above, ~~they~~ the system incorporates security to limit what individual pieces of data a user can access and the nature of that access. This ensures that only properly designated users can access certain data. For example: only valid users will be able to access the system, only authorized users will be able to perform actions, all privacy data will be encrypted in the database, configurable security policies will be available to authorized users.

Paragraph 0135 at page 13 is amended to as follows:

The database (e.g., Oracle database) is preferably only be-accessible by one IP Address. This IP Address is preferably that of the application server (e.g., WebLogic). Preferably, WebLogic resides on the only server that can access data in the database. Machines hosting system application servers are preferably-hosted-behind Firewall equipment. Configuration of Firewall hardware and software in connection with the system based on the disclosure herein is well within the scope of those skilled in the art. Configuration of appropriate Intranet security (DMZ, TCP Ports, Subnet domains, Virtual LAN and the like) in connection with the system based on the disclosure herein is also well within the scope of those skilled in the art.